

ABSTRACT OF THE DISCLOSURE

A robot remote manipulation system is provided, including a bipedal walking robot and a 5 remote manipulation device for remotely manipulating the bipedal walking robot. The robot is connected to the remote manipulation device via a communication network and controlled by controlling data from the remote manipulation device. In the system, the 10 remote manipulation device comprises a pair of bilateral mechanical rotating elements providing a quantity of motion for each bilateral leg of the bipedal walking robot; and a controlling data transmitter for transmitting controlling data 15 corresponding to the quantities of motion to the bipedal walking robot. The bipedal walking robot comprises a controlling data receiver for receiving the controlling data transmitted from the remote manipulation device; and a leg motion controller for 20 processing the received controlling data and causing the bilateral legs to move forward or backward.